

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number  
**WO 2004/045454 A3**

(51) International Patent Classification<sup>7</sup>: **A61F 2/06**,  
H01F 1/00

(21) International Application Number:  
PCT/US2003/036934

(22) International Filing Date:  
18 November 2003 (18.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/427,598 18 November 2002 (18.11.2002) US

(71) Applicant (*for all designated States except US*): **LIQUID-METAL TECHNOLOGIES** [US/US]; 25800 Commerce Drive, Suite 100, Lake Forest, CA 92630 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **BESSLER, Brad** [US/US]; 470 West Davis Boulevard, Tampa, FL 33606 (US). **NGUYEN, Tranquoc, Thebao** [US/US]; 2568 West Rome Avenue, Anaheim, CA 92804 (US). **PEKER, Atakan** [TR/US]; 17 Coffeeberry, Aliso Viejo, CA 92656 (US). **OPIE, David** [US/US]; 820 Bywater Road, Annapolis, MD 21401 (US).

(74) Agent: **PECK, John, W.**; Christie, Parker & Hale, LLP, Post Office Box 7068, Pasadena, CA 91109-7068 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

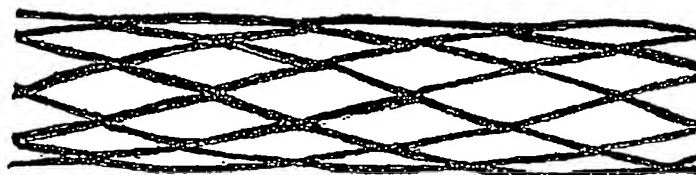
**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
26 August 2004

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: AMORPHOUS ALLOY STENTS



(57) Abstract: Stents made of bulk-solidifying amorphous alloys and methods of making such stents are provided.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/36934

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 2/06; H01F 1/00

US CL : 623/1.15; 148/304

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 623/1.15; 148/304

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0162605 A1 (Horton, Jr. et al) 07 November 2002 (07.11.2002). sections 0008, 0032, 0033, 0047, and claim 9	1-30
Y, P	US 6,605,111 A (Bose et al) 12 August 2003 (12.08.2003), see col. 10-26 and claim 3)	1-30

☐

Further documents are listed in the continuation of Box C.

☐

See patent family annex.

* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B"	earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

19 May 2004 (19.05.2004)

Date of mailing of the international search report

06 JUL 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Suzette J. Jackson

Telephone No. 703-308-0000